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Endpoint control in fast point-to-point elbow rotations:

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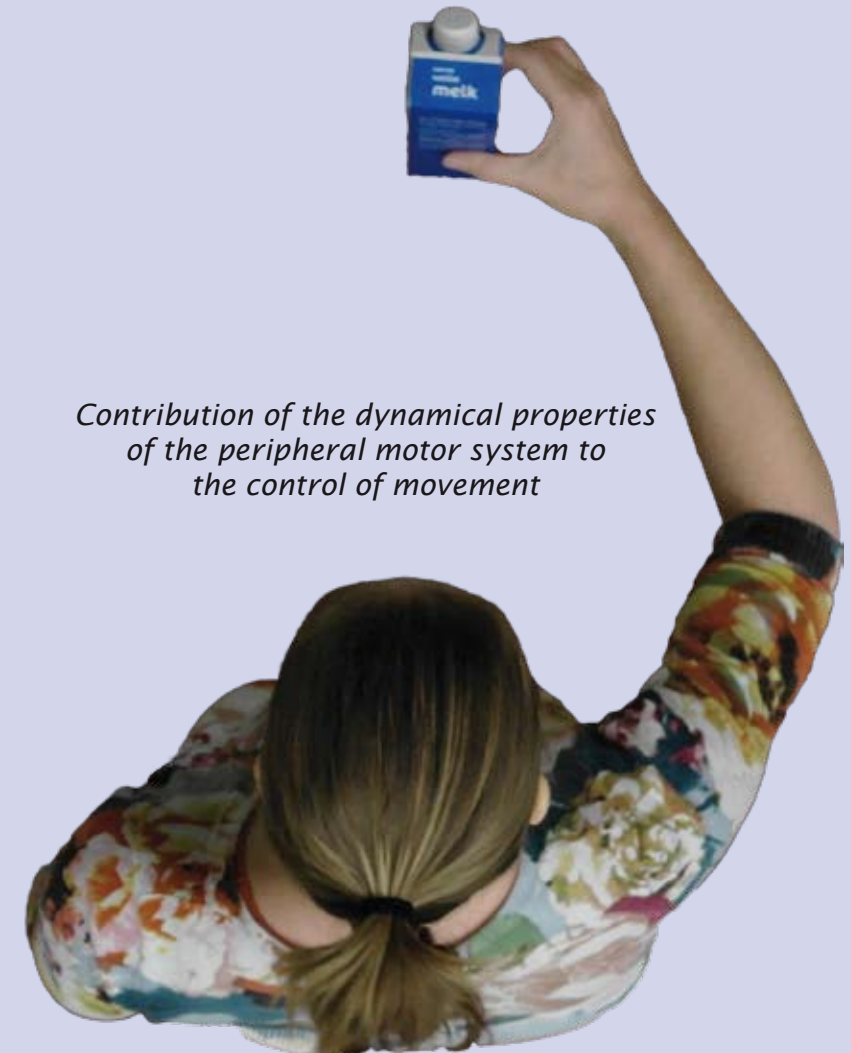
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In our daily live we make countless fast goal-directed movements under a large variety in external conditions. When we want to grab a pack of milk to take a sip our starting position, the placement of the pack, and the weight of the pack vary each time we grab. Hence, the required joint torques vary as well. It has been proposed that the brain only plans and controls movement endpoints, leaving the generation of required joint torques to the viscoelastic properties of the musculoskeletal system. The experiments described in this thesis were setup to investigate whether detailed knowledge on external load is used to control point-to-point elbow rotations. Additionally, a simulationstudy is described that illustrates how the level of simplification used to model the viscoelastic properties of the musculoskeletal system affects conclusions on motor control derived from measured responses to external load perturbations.



Endpoint control in fast point-to-point elbow rotations - Ilona Pintér

Endpoint control in fast point-to-point elbow rotations



*Contribution of the dynamical properties
of the peripheral motor system to
the control of movement*

Ilona Pintér



MOVE TO IMPROVE

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